

Current Approver:	n/a	Copy To on Completion:	n/a
Current Status:	Issued	Next Status:	n/a
Approval Required From:	All		

Burnside Incident Investigation Report (for Internal Use Only)

Created by Thomas Miller On 03/27/2012

Incident Information (Link to S3Y)			
Incident Number:	12-0008-RCI		
Title:	CIP Acid Gas Leak		
Incident Date: (if applicable)	03/18/2012	Incident Time:	08:00 PM
Date of first awareness / initial DuPont contact / notified of Incident:	03/18/2012	Time of first awareness / initial DuPont contact / notified of Incident:	08:00 PM
Date Investigation Began	03/18/2012	Time Investigation Began	09:00 PM
Business/Unit:	Burnside	Area:	Acid Plant
Brief Description of known facts:	Operations called maintenance to report a gas leak on the CIP. Upon investigation, it was discovered that the vacuum box insert had corroded, therefore, we lost vacuum at that point. It was reported that the gas was not traveling past the fence line.		
Immediate Action Taken:	KBR personnel repaired the inserts, and leak was contained.		
Type of Incident : (Select all that apply)			
Was there Potential for an On-Job Injury / Illness	No		
Was there an On-Job Injury / Illness (Link to S35G)	No		
Operation status at time of incident	Normal Operation / Activity		
Incident Recommendation - PREFIX:	INE - Incident - Environmental		

Environmental and / or Process Safety			
Type of Environmental / Process Incident (Select all that apply)	Release of Materials		
Area PSM Classification	HHP		
Was there off-site impact?	No		
Outside Notification Required?	No	Release Reporting Guidelines	Names of Outside Agencies Notified
Release - UNITS of Weight Measure:			
Amount Released out of Primary containment	3	Duration (Mins.)	120
Was release contained?			
Amount Released out of Secondary Containment (Decimal Symbol to be ".")	1.5	To what medium?	Air
HTM Chemicals Released (Select All That Apply)	Sulfur Dioxide (anhydrous liquid)		
Chemicals Released (other than HTM)			
Were any people exposed to the chemicals?	No		

XHIBIT #

EPONENT



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DSF0000005

Instructions

2009 ACC Reportable Quantities:

An acute release of flammable, combustible, or toxic chemical from primary containment. Release measured in 1-hr blocks.

Hydrogen Sulfide	55 lbs
Sulfur dioxide	220 lbs
Sulfur trioxide, stabilized	55 lbs
Sulfuric Acid, fuming ($\geq 30\%$ oleum)	55 lbs
Sulfuric Acid, fuming ($< 30\%$ oleum)	1100 lbs
Sulfuric Acid	2200 lbs
Sodium Hydroxide solution (all strengths):	2200 lbs
Nitrosylsulfuric acid	2200 lbs

Incident Report Quality Assurance questions.

These questions are to be reviewed and answered for each incident that is being authorized.

PHA Area	Acid Plant
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ENVIRONMENT RATING (* Indicates an automatic Category A Incident)			Points
1. Hazards and materials involved	a. Highly toxic materials (HTM)		20
2. Actual Size of release, incident or magnitude of event	e. Small - Release > 0.45 kg to 4.5 kg (> 1 to 10 lb).		0
6. Actual on-site Impact			0
6(1). Evacuation - Due to the presence of hazardous conditions	c. Precautionary evacuation or no evacuation		0
6(2). Shelter-in-place - Due to the presence of hazardous conditions	c. Precautionary shelter-in-place or no shelter-in-place		0
6(4). Process shutdown - Due to the presence of hazardous conditions as a result of the incident	d. Nonemergency shutdown due to very small drips or puffs that are localized at the source only and where very minimal or no production impact occurs. Note - Discretionary / nonemergency shutdowns that are taken consistent with a site's zero-leak philosophy should be scored 0 points		0
6(6). Damage to property (e.g. - groundwater / sediment / surface water / soil / or soil cover (e.g. - aggregate and shell) contamination)	c. No impact to soil / surface water / or groundwater or release limited to surface soil or water that is readily remediated by plant personnel as part of the initial response to the incident		0
6(7). Damage to wildlife (e.g. - deer / birds / or small animals) - aquatic life (e.g. fish / turtles / crabs / or frogs) - or vegetation (e.g. trees / bushes / or grass)	c. No impact or slight reversible impact to vegetation (e.g. brown grass or damage to tree leaves) aquatic life or wildlife in the area of the event only		0
8. Actual off-site impact			
8(1). Evacuation	c. No evacuation		0
8(2). Shelter-in-place	c. No precautionary or nonprecautionary shelter-in-place		0
8(3). Injury	b. None		0
8(4). Media Coverage	d. None		0
8(5). Damage to property (e.g. - groundwater / sediment / surface water / soil / or soil cover (e.g. - aggregate and shell) contamination)	c. None		0

8(6). Damage to wildlife (e.g. - deer / birds / or small animals) - aquatic life (e.g. fish / turtles / crabs / or frogs) - or vegetation (e.g. trees / bushes / or grass)	c. None	0	
8(7). Community impact	d. None	0	
8(8). Outside agency emergency response	b. No notification - involvement - or outside agency responders notified and on standby or observing with no active involvement in emergency response	0	
8(9). Government and external reporting	c. Precautionary, courtesy, or no reporting	0	
8(10). Government response	c. None	0	
Environment Rating: C			20

Incident Type	Rating (A, B, C) (Link to S8Y)	Rating Number
Environmental		
POTENTIAL ON-JOB INJURY		
POTENTIAL On-Job Injury / Illness		

Determination of Investigation Requirements	
Is this a repeat incident?	No
Do you expect that Mechanical Integrity (MI) and/or Quality Assurance (QA) will be significant key factors or contributors to this incident?	
Is Further / Full Investigation of this incident recommended / required ?	
Reporting \ Roll-Up details are required for all incidents	

"One-Pager" Communication	
Is a "One-Pager" to be prepared?	No
Preliminary One-Pager Suggested: All Event Related Injuries All Category A, B Incidents Near Miss Incidents (>LWC) Other type with important learnings	Final One-Pager Suggested: All Event Related LWC All Category A, B Incidents Other type with important additional learnings

MitC - INC (Incident Notification Communication) / ITS Transfer Status	
Transfer enabled By:	Thomas Miller/CL/DuPont On : 03/27/2012

Environmental and / or Process Safety	
Primary equipment involved	Process Equipment (Reactors / Mixers / Extruders / Etc.)

DSF0000007

Units of material released quantity				
Material Type	Name of Chemical / Material	Amount Released out of Primary containment	Amount Released out of Secondary Containment	Released out of Secondary Containment to:
Gases - Inert	Sulfur Dioxide	3	1.5	Air
PSM Incident Cost Calculator				
Property Damage cost (\$)			\$0	
Environmental Damage cost (\$)			\$0	
Business Interruption cost (\$)			\$0	
Other Cost (\$)			\$0	
Total Cost (\$)			\$0	

Associated CAR's

Email will go to the default distribution list:	
Preliminary:	n/a
Issue & Rated:	n/a
Final:	SPEC-Sulfur--Burnside-Authors; Brian E Bentley/AE/DuPont; Raymond G Allen/AE/DuPont; Rob M Brown/AE/DuPont; SPEC-Sulfur--Burnside-Editors

List any names for off-site notification List any additional names below for the Final Report:

Workflow / Status	Approver/ Completed By:	Upon Completion - Copy Email to:	Completed Date:	Approval Required From:
DRAFT/NEW				
0 Draft	Author Thomas Miller		03/27/2012	All

DSF0000008

IN-PROGRESS					
1	Rate Incident	Maintenance, Environmental Manager Thomas Miller		03/27/2012	Any One
2	Approve Rating	Plant Manager Thomas Miller/CL/DuPont			All
3	Formal Investigation	Incident Lead Investigation Leader			All
4	Submitted To Authorizer	Plant Manager Thomas Miller	Final	03/27/2012	All
COMPLETE					
20	Issued				

Status/Edit Tracking	
Update History:	
03/27/2012 : Thomas Miller : Status updated to Rate Incident	
03/27/2012 : Thomas Miller for Kerry Long, T Gene Clemons : Status updated to Submitted To Authorizer	
03/27/2012 : Thomas Miller : Status updated to Issued	

Added as per PQR#11183829 - Lookup for PComplete11 to PComplete15

*Only past five edits are shown